

CLAIMS:

1. ~~An improved print image, comprising:~~

an original image including a plurality of original pixels; and
a fringe field tailoring pixel including a sub-pixel pattern replacing
one of the plurality of original pixels for enhancing the printing of the
original image.

2. The improved print image of claim 1, wherein the sub-pixel pattern
comprises at least two pulses.

3. The improved print image of claim 1, wherein the sub-pixel pattern is
comprises one-quarter pixel increments.

4. The improved print image of claim 1, wherein the sub-pixel pattern is
comprises one-eighth pixel increments.

5. ~~The improved print image of claim 1, wherein the sub-pixel pattern is
comprises one-sixteenth pixel increments.~~

6. The improved print image of claim 1, wherein the ~~original image~~
comprises an original image shape; and,
the fringe field tailoring pixel is adjacent to the original image shape.

7. The improved print image of claim 6, the original image shape
comprises edges, wherein the fringe field tailoring pixel is a replacement
of an original pixel located on one of the edges of the original image
shape.

8. ~~The improved print image of claim 7, further comprising additional
fringe field tailoring pixels, which are continuously adjacent along one of
the edges of the original image shape.~~

9. The improved print image of claim 8, wherein the additional fringe-field tailoring pixels are arranged in a pattern and substituted for a corresponding pattern of original pixels in the original image.

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10. The improved print image of claim 9, wherein the pattern of auxiliary pixels is a dispersed array close to a shape edge found in the original image.

11. The improved print image of claim 7, further comprising additional fringe field tailoring pixels, which are continuously adjacent along the leading and lagging edges of the original image shape.

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

~~12. A method for improving the printing of an image, comprising:~~

receiving a source image comprising original pixel data; and
processing the source image original pixel data to embed fringe field
tailoring pixels having sub-pixel patterns therein.

13. The method of claim 12, wherein the step of processing includes
morphologically manipulating the original pixel data to substitute fringe
field tailoring pixels for original data pixels.

14. The method of claim 13, wherein the step of morphologically
manipulating includes embedding fringe field tailoring pixels on the
leading and lagging edges of image shapes.

15. The method of claim 13, wherein the step of morphologically
manipulating comprises:

storing the source image in a first memory space;
replicating the source image as a working image in a second memory
space;
dilating the working image to produce a first resultant working image;
outlining the first resultant working image to produce outline pixels in
a second resultant working image;
substituting fringe field tailoring pixels for the outline pixels in the
second resultant working image; and,
performing an OR operation of the second resultant working image
with the source image in the first memory space, to thus produce fringe
field tailoring pixels in the source image at those pixel locations
corresponding to the outline data in the second resultant working image.